1 VQE results Aer Estimator (No Shots)

(Full Hamiltonian) Double Well $\Lambda = 4$ COYBLA Max 10K Iterations

Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	100/100	43	9.1332e−01	6.7582e−03	1.0239e+00	1.1735e−01	9.0655987147e−01	00h 00m 14s
RA r1 rl	1e−02	100/100	148	9.0663e−01	6.6345e−05	9.1058e−01	4.0161e−03	-	00h 00m 42s
RA r1 rl	1e−03	100/100	283	9.0656e−01	7.6769e−07	9.2917e−01	2.2611e−02	-	00h 01m 24s
RA r1 rl	1e−04	100/100	423	9.0656e−01	6.398e−09	9.0656e−01	1.2705e−06	-	00h 02m 04s
RA r1 rl	1e−05	100/100	704	9.0656e−01	3.6733e−11	9.0656e−01	1.7078e−07	-	00h 04m 14s
RA r1 rl	1e−06	100/100	836	9.0656e−01	1.2751e−12	9.0656e−01	1.1241e−10	-	00h 04m 39s
RA r1 rl	1e−07	99/100	889	9.0656e−01	4.5519e−15	9.0656e−01	4.1267e−13	-	00h 05m 14s
RA r1 rl	1e−08	99/100	955	9.0656e−01	2.2204e−15	9.0656e−01	2.4625e−13	-	00h 04m 29s
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1